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(54) INORGANIC FLUORESCENT SUBSTANCE AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an inorganic fluorescent substance in which the constituent particles have single crystalline structure and their average sizes are smaller than a specific value and their specific surface areas fall within a specific range and that gives a fluorescent ink for ink jet printing which does not cause clogging, is storage-stable and highly fluorescent and yields durable printed matters.

SOLUTION: A metal alkoxide or a water-soluble salt is dissolved in an organic solvent to give a mixed solution, which is hydrolyzed with water to give a sol of hydroxide or oxide. The sol is dried and baked to give the objective fluorescent substance, by synthesis, having ≤ 200 nm, preferably ≤ 100 nm average size of one particle or crystallite forming a single crystal structure and a specific surface area of the particle or the crystallite in the region of 10-400 m²/g.

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